Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of the Claims

1. (Currently Amended) A cooling device for removing heat from an integrated

circuit, said cooling device comprising:

a conduit;

a flexible channel having a first open end and a second closed end, said

first open end coupled with said conduit, said open end having an internal

width, said flexible channel comprised of a resilient material having spring-like

characteristics, said material to provide a spring-like restoring force when

compressed, the second closed end comprising a thermally conductive material

attached to said flexible channel, said thermally conductive material having a

substantially planar surface to interface directly with said integrated circuit when

said flexible channel is extended;

an interconnect mechanism between said conduit and said flexible channel

to allow a fluid introduced within said conduit to move between said conduit

and said flexible channel; and

a port for coupling to a pump coupled to said conduit configured to

reduce a pressure in said conduit and said flexible channel to compress said

flexible channel and to remove said conductive material from said integrated

circuit

a heat sink attached to an interior surface of said closed end to cause heat

absorbed by said closed end to be conducted through said conduit and said

flexible channel.

2. (Original) A cooling device as in Claim 1, wherein said interconnect

mechanism is an opening in a surface of said conduit.

3. (Original) A cooling device as in Claim 1, wherein said opening has a width

equal to said internal width of said open end.

4. (Original) A cooling device as in Claim 1, wherein said open end is coupled

with said conduit by a technique selected from the group consisting of soldering,

sautering, welding, and adhering.

5. (Currently Amended) A cooling device as in Claim 4, wherein said flexible

channel, including said closed end, is sealed, and further comprising:

a port for coupling to a pump coupled to said conduit configured to

reduce a pressure in said conduit and said flexible channel to compress said

flexible channel and to remove said conductive material from said integrated

circuit.

6. (Cancelled).

7. (Currently Amended) A cooling device as in Claim 6 1, wherein said

thermally conductive material is copper.

8. (Cancelled).

9. (Previously Presented) A cooling device as in Claim 1, wherein said resilient

material comprises a material selected from the group of which phosphor bronze

and beryllium copper are members.

10. (Original) A cooling device as in Claim 1, wherein said resilient material is

pleated.

11. (Original) A cooling device as in Claim 1, wherein said flexible channel is in a

compressed state.

12. (Original) A cooling device as in Claim 11, further comprising:

a vacuum pressure within said conduit and said flexible channel.

13. (Original) A cooling device as in Claim 11, wherein a pressure within said

flexible channel is less than 1.0 atmosphere.

14. (Cancelled)

15. (Previously Presented) A cooling device as in Claim 11, wherein said fluid is

within said flexible channel.

16. (Original) A cooling device as in Claim 1, wherein said flexible channel is in

an extended state.

17. (Original) A cooling device as in Claim 16, wherein a pressure within said

extended flexible channel approximately equals 1.0 atmosphere.

18. (Original) A cooling device as in Claim 16, wherein a pressure within said

extended flexible channel is not a vacuum pressure.

19. (Previously Presented) A cooling device as in Claim 18, wherein said fluid is

contained within said conduit and said flexible channel.

20. (Previously Presented) A cooling device as in Claim 19, wherein said fluid is

heated.

21. (Previously Presented) A cooling device as in Claim 19, wherein said fluid is

cooled.

22. (Previously Presented) A cooling device as in Claim 19, wherein said closed

end contacts said integrated circuit and wherein heat from said integrated circuit

is dissipated by said fluid contained within said conduit and said flexible

channel.

23. (Previously Presented) A cooling device as in Claim 19, further comprising:

a plurality of flow diverters attached within said channel to create

turbulence in said fluid.

24. (Cancelled)

25. (Original) A cooling device as in Claim 1, wherein said flexible channel is

compressed by creating a vacuum pressure within said flexible channel.

26. (Original) A cooling device as in Claim 1, wherein said flexible channel is

compressed by creating a pressure of less than 1.0 atmosphere within said

flexible channel.

27. (Original) A cooling device as in Claim 1, wherein said flexible channel is

extended by equalizing a vacuum pressure within said flexible channel to

approximately equal 1.0 atmosphere.

28. (Original) A cooling device as in Claim 1, wherein said flexible channel is

extended by creating a pressure approximately equal to 1.0 atmosphere within

said flexible channel.

29. (Previously Presented) A cooling device as in Claim 1, further comprising:

a heat sink attached to an interior surface of said closed end to cause heat

absorbed by said closed end to be conducted through said heat sink to said fluid

contained within said conduit and said flexible channel.

30. (Cancelled)

31. (Original) A cooling device as in Claim 29, wherein said heat sink comprises

a plurality of spaced apart planar fins.

32. (Original) A cooling device as in Claim 1 wherein said conduit is a heat pipe.

33. (Previously Presented) A cooling device as in Claim 32, further comprising:

wicking material contained within said heat pipe; and

a reservoir coupled with said heat pipe, said reservoir to contain said

fluid.

34. (Original) A cooling device as in Claim 33, wherein said fluid is contained

within said heat pipe.

35. (Currently Amended) A cooling device as in Claim 33, wherein said gas fluid

is contained within said heat pipe.

36-41. (Cancelled).

42. (Currently Amended) A cooling device for removing heat from an electronic

or electrical device, said cooling device comprising:

means for positioning said electronic or electrical device proximate a

conduit having a flexible channel attached thereto;

means for extending said flexible channel until a closed end of said

flexible channel contacts said electronic or electrical device, said closed end

comprising a thermally conductive material having a substantially planar surface

to interface directly with said electronic or electrical device and a heat sink

attached to an interior surface of said closed end to cause heat absorbed by said

closed end to be conducted through said conduit and said flexible channel; and

means for contracting said flexible channel to remove said closed end

from said electronic or electrical device.

43. (Previously Presented) A cooling device as in Claim 42, wherein said means

for extending said flexible channel further comprises:

means for introducing a fluid within said conduit and said flexible

channel; and

means for creating a pressure within said flexible channel of

approximately 1.0 atmosphere.

44. (Cancelled)

45. (Currently Amended) A cooling device as in claim 44 42, wherein said means

for compressing said flexible channel further comprises:

means for creating a vacuum pressure within said flexible channel.

46. (Currently Amended) A cooling device as in Claim 44 42, wherein said means

for compressing said flexible channel further comprises:

means for creating a pressure of less than 1.0 atmosphere within said

flexible channel.